**Homework 64 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SOHCAHTOA Period\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Directions: Show all your work.

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| 1. Find each trigonometric ratio.  B  25  7  A 24 C  sin A = \_\_\_\_\_\_ sin B = \_\_\_\_\_\_  cos A = \_\_\_\_\_\_ cos B = \_\_\_\_\_\_  tan A = \_\_\_\_\_\_ tan B = \_\_\_\_\_\_ | 2. An angle in a right triangle has a measure. If cos =, then tan= ? | 3. Identify the opposite and adjacent legs to B.  B  Opposite Leg:  Adjacent Leg:  a  c  Hypotenuse:  C b A |
| 4. In the figure below, C is a right angle, and a, b, and c represent the lengths of the sides of the right triangle. What is the tangent of A?  A  17  B  15  C | 5. Find each trigonometric ratio.  A    b c  B  C  a  sin A = \_\_\_\_\_\_ sin B = \_\_\_\_\_\_  cos A = \_\_\_\_\_\_ cos B = \_\_\_\_\_\_  tan A = \_\_\_\_\_\_ tan B = \_\_\_\_\_\_ | 6. Identify the opposite and adjacent legs to P.  Opposite Leg:  Adjacent Leg:  P  Hypotenuse:  5  13  R  12  Q |
| 7. Find the value of the given trigonometric ratio. | 8. Find the value of the given trigonometric ratio. | 9. Find the value of the given trigonometric ratio. |
| 10. Find the value of the given trigonometric ratio. | 11. Find the value of the given trigonometric ratio. | 12. Find the value of the given trigonometric ratio. |